



# National Weather Service

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## Developing a Governance Roadmap for AWIPS II

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**April 1, 2008 (V3)**  
**Systems Engineering Center**



# Goals for this Meeting



- **Review Actions from last meeting**
- **Updates to Governance Vision team members and Stakeholders**
- **Review of Governance Definition**
- **Review of Roadmap**
- **Define Local Applications Pilot Teams**
  - ***Define responsibilities of each group***
    - *Determine controls (e.g., policy directives), standards, monitoring and enforcement methods, and tools*
    - *Maintain risk analysis*
  - ***Define members and roles***
  - ***Define deliverables and success criteria***
    - *A set of reviewed and approved controls (e.g., policy, directives), standards, monitoring and enforcement methods, and tools*



# Establish Governance Vision Team



- **Possible structure**

- **Team Lead**

- *Ed Mandel (OST/SEC)*

- **NWS/OST/SEC**

- *Edwin Welles*

- *Olga Brown-Leigh (welcome our new member)*

- *Ronla Henry*

- **Raytheon**

- *Doug Lawson*

- *Randy Ashby*

- *Russ Ingraham (welcome our new member)*



# Stakeholders



- **Project Sponsor**
  - *Chuck Piercy – OST*
  - *Buddy Ritchie – Raytheon*
- **Key Stakeholders (affected by the Governance decisions)**
  - *Raytheon AWIPS II Development Team*
  - *Raytheon O&M Team*
  - *Corporate Board*
  - *OST/PPB (OSIP)*
  - *OST/SEC (All branches)*
  - *OPS*
  - *OCWWS*
  - *Regions (ER,CR,WR,CR,AR, PR)*
  - *Development Organizations (MDL, OHD, GSD)*
  - *Field and Local Developers*
  - *National Centers*
  - *Data Providers (NCEP, NESDIS)*
  - *Training (Headquarters and Training Center)*



# Governance Definition



- **Governance is the specific set of measurable policies and controls, standards and best practices methodologies that document the AWIPS decision making process in the areas of Requirement definition, Development paradigm, Release, Installation, and System Standards and accomplish the strategic governance goals.**



# AWIP II Governance Topics



Topics	Hardware		Software	
	Baseline	Local	Baseline	Local
Requirements Definition	YES	YES	YES	YES
Development paradigm	TBD*	TBD*	YES	YES
Release process	YES	n/a	YES	YES
Installation	YES	n/a	YES	YES
System Standards	YES	YES	YES	YES

- *TBD\* - Outstanding action*



# Pilot Team Initiation Order



## 1. Software – Local

- *Requirements definition, Development Paradigm, Release Process, Installation, and System Standards*

## 2. Software – Baseline Vision Team

- *This team will look at all aspects of the development cycle and determine if small sub-teams are required and what the order of addressing these topics should be*
  - *Requirements definition, Development Paradigm, Release Process, Installation, and System Standards*

## 3. Hardware – Baseline

- *Requirements definition, Development Paradigm, Release Process, Installation, and System Standards*

## 4. Hardware – Local

- *Requirements definition, Development Paradigm, Release Process, Installation, and System Standards*



# Pilot Sub Teams Leads and Members



- **Software Local Applications**

- *Requirements, Development, Release, Install, and System*

- *Lead – Thuy Tran (OST/SEC)*

- *Members*

- Raytheon - Doug Lawson, Karen Tepera, Sean Webb

- Government - Jay Morris (OPS), Local Applications Regional Representatives (ER, CR, SR, WR, AR, PR), Ed Mandel (OST/SEC)

- *Charter*

- **Draft developed and included with this briefing**

- *Schedule*

- Try to set up a kickoff meeting for week of April 7-11, 2008

- » *Need to get regional focal points identified and committed before scheduling a meeting*

- **Roadmap shows completion of the Governance team reviews of local application policy, guidelines and standards by July 4, 2008**



# Local Software Requirements Decisions



- Decide what local applications to develop
- **Decide what requirements can be satisfied with the existing baseline software**
- **Decide how to collaborate development activities between sites and regions**
- **Decide how to identify areas requiring development by looking at where local applications are filling the gaps in functionality**
- **Decide how to promote nationally used local applications to the baseline**



# Local Software Development Decisions



- **Decide on approval process of software for integration into the site operations**



# Local Software Release Decisions



- **Decide how to release local applications**
- **Decide when to release local application changes**
- **Decide how to manage local application distribution**
- **Decide how to CM local applications**



# Local Software Installation Decisions



- Decide when to install local applications
- **Decide where to install local applications**
- **Decide how to minimize the breakage of local applications with each software release**



# Local Software System Standard Decisions



- **Determine what coding standards are acceptable**
  - *What are the standards governing local applications development?*
    - *Should local applications adhere to the same coding and other standards as base line apps?*
      - Perhaps they should if they are used by more than one site...
- **Decide what development (design) guidelines are acceptable**
  - ***Development Environment***
    - *Where do local applications reside?*
      - **Modified components of baseline are renamed and installed in defined directories**
    - *Where do we test local applications*
    - *Where do we run local applications?*
    - *Do we need to distinguish between server side plug ins and workstation (e.g. CAVE) plug ins?*
    - *Will there be system segmentation (e.g., CODE or a “sand box”)?*
- **Decide on what infrastructure to provide for collaborative development**
  - *Should such a tool be part of the baseline?*



# Pilot Sub Teams Leads and Members



- **Software Baseline Applications**
  - ***This team will look at all aspects of the development cycle and determine if small sub-teams are required and the order***
    - *Requirements definition, Development Paradigm, Release Process, Installation, and System Standards*
      - **Lead – TBD (Raytheon)**
      - **Members (DRAFT)**
        - » *Raytheon - Karen Tepera, Teena Levu, Andrew Lare, and Matt Kensey*
        - » *Government – Ed Mandel (OST/SEC), Cindy Woods (OST/PPB), Diaz (OCWWS), Cliff Wong (OST/SEC), Bob Rood (OST/SEC), Neal Dispasquale (OPS), Development orgs (MDL, GSD, OHD)*
    - **Schedule**
      - » *TBD – second in priority of pilot tasks*



# Closed Action Items



- 1. Identify team members for Governance Vision team (Welles, Ashby – 3/7)**
- 2. Identify team members for the Local Applications team (Welles, Ashby – 3/7)**
- 3. Provide existing coding standards used by Omaha staff (Raytheon – 3/31)**
- 4. Collect existing governance documents for Local Applications (Mandel – 3/31)**
- 5. Review Local Application Decisions (Governance team - 4/1)**



# Open Action Items



1. Does hardware have a Development Paradigm aspect (Mandel – 4/1)
2. Review Governance Roadmap and provide comments (Governance Team - 4/8)
3. Complete Roadmap (Mandel – 4/9)
4. Identify regional focal points for local applications group (Tran, Mandel - 4/8)
5. Provide team members to Software Baseline Applications Pilot team (Gov't and Raytheon - 4/8)
6. Provide comments on Governance Website outline (Governance Team - 4/8)
7. Collect existing governance documents for Software Baseline Applications Pilot team (Mandel – 4/15)
8. Make sure each team knows to include monitoring and enforcement in the policies, standards and guidelines they document. Include this in the team charters. (Mandel - continuing)



# Next Meeting



- **April 8, 2008**
- **1:00pm Room 14246**
- **Topics**
  - *Finalize Roadmap for Local Applications*
  - *Governance Tools*
  - *Governance Web Site*
  - *Action items*
  - *Finalize membership of Baseline Applications team*



# Documentation



- **Kickoff Meeting of Governance Vision team**
  - *Governance Status MTG 040108.ppt*
- **Draft Governance Decisions for AWIPS II**
  - *Governance Decisions.ppt*
- **April 1 Meeting of Governance Vision team**
  - *Governance Status MTG 040108 V3.ppt*
- **Current Governance**
  - *Current Governance 032808.xls*
- **Governance Road Map**
  - *Governance Road map V4.mpp*
- **Web Site Outline**
  - *Governance Website.doc*